Abstract

A system for process control comprises a server digital data processor and a client digital data processor that are coupled by a network, such as the Internet or an Intranet. The server digital data processor, which is additionally coupled to a control/sensing device and any associated interface equipment (collectively, referred to as "process control apparatus"), includes a command processor that transfers information between the network and the process control apparatus. The client digital data processor includes an information client (e.g., a so-called Internet web browser) capable of requesting and receiving an applet from the server digital data processor. The information client, further, defines a hardware-independent and operating system-independent virtual machine environment within the client digital data processor. The client digital data processor executes, within that virtual machine environment, an applet for configuring the client digital data processor as a "process controller" that establishes communications over the network with the command processor and that monitors and/or controls the process control apparatus via those communications.

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